

## EAST Search History

| Ref # | Hits   | Search Query   | DBs  | Default Operator | Plurals | Time Stamp          |
|-------|--------|--|--|------------------|---------|---------------------|
| S17   | 1      | "20050199184"  | US-PGPUB;<br>USPAT   | OR               | ON      | 2006/02/14<br>10:42 |
| S18   | 24     | ("4138306"   "4563367"  <br>"4910042"   "4913929"  <br>"4988644"   "5000113"  <br>"5158644"   "5346579"  <br>"5350480"   "5403434"  <br>"5662770"   "5688357"  <br>"5770098"   "5792272"  <br>"5812403"   "5844195"  <br>"5942804"   "6039834"  <br>"6060400"   "6125859"  <br>"6148832"   "6170428"  <br>"6182602"   "6217951").PN. | US-PGPUB;<br>USPAT   | OR               | ON      | 2006/02/16<br>10:17 |
| S19   | 1      | "6450117".pn.  | US-PGPUB;<br>USPAT   | OR               | ON      | 2006/02/14<br>16:22 |
| S20   | 83019  | (gas near3 (distribut\$3 inject<br>\$3 manifold))  | US-PGPUB;<br>USPAT   | OR               | ON      | 2006/02/14<br>16:23 |
| S21   | 121    | S20 and (baffle and vane and<br>hub)   | US-PGPUB;<br>USPAT   | OR               | ON      | 2006/02/14<br>17:16 |
| S22   | 509    | 156/345.33.ccls. 156/345.34.<br>ccls.  | US-PGPUB;<br>USPAT   | OR               | ON      | 2006/02/14<br>17:12 |
| S23   | 2924   | 118/715.ccls.  | US-PGPUB;<br>USPAT   | OR               | ON      | 2006/02/14<br>17:16 |
| S24   | 1      | S23 and (baffle and vane and<br>hub)   | US-PGPUB;<br>USPAT   | OR               | ON      | 2006/02/14<br>17:17 |
| S25   | 8      | S23 and (baffle and vane)  | US-PGPUB;<br>USPAT   | OR               | ON      | 2006/02/14<br>17:17 |
| S26   | 503786 | "118"/\$.ccls. 156/345.\$2.CCIs.<br>"216"/\$.ccls. "427"/\$.ccls.<br>"438"/\$.ccls. "204"/\$.ccls.   | US-PGPUB;<br>USPAT; USOCR;<br>EPO; JPO;<br>DERWENT;<br>IBM_TDB | OR               | ON      | 2006/02/14<br>18:08 |
| S27   | 11183  | S26 and (gas near3 (distribut<br>\$3 inject\$3 manifold))  | US-PGPUB;<br>USPAT   | OR               | ON      | 2006/02/14<br>18:42 |
| S28   | 1273   | S27 and (baffle impeller)  | US-PGPUB;<br>USPAT   | OR               | ON      | 2006/02/14<br>18:10 |
| S29   | 34     | S27 and ((baffle impeller)<br>same (blade vane))   | US-PGPUB;<br>USPAT   | OR               | ON      | 2006/02/14<br>18:41 |
| S30   | 34     | S27 and ((baffle impeller)<br>same (blade vane))   | US-PGPUB;<br>USPAT; USOCR;<br>EPO; JPO;<br>DERWENT;<br>IBM_TDB | OR               | ON      | 2006/02/14<br>18:42 |

|     |        |  |  |    |    |                     |
|-----|--------|--|--|----|----|---------------------|
| S31 | 160565 | (gas near3 (distribut\$3 inject<br>\$3 manifold))  | US-PGPUB;<br>USPAT; USOCR;<br>EPO; JPO;<br>DERWENT;<br>IBM_TDB | OR | ON | 2006/02/14<br>18:43 |
| S32 | 1288   | S31 and (baffle and vane)  | US-PGPUB;<br>USPAT; USOCR;<br>EPO; JPO;<br>DERWENT;<br>IBM_TDB | OR | ON | 2006/02/14<br>18:44 |
| S33 | 8      | S32 and showerhead   | US-PGPUB;<br>USPAT; USOCR;<br>EPO; JPO;<br>DERWENT;<br>IBM_TDB | OR | ON | 2006/02/14<br>18:43 |
| S34 | 1288   | S31 and (baffle and vanes)   | US-PGPUB;<br>USPAT; USOCR;<br>EPO; JPO;<br>DERWENT;<br>IBM_TDB | OR | ON | 2006/02/14<br>19:04 |
| S35 | 61     | S34 and plasma   | US-PGPUB;<br>USPAT; USOCR;<br>EPO; JPO;<br>DERWENT;<br>IBM_TDB | OR | ON | 2006/02/14<br>19:12 |
| S36 | 82342  | (showerhead or (shower adj<br>head)) or (gas near2 (distribut<br>\$4 or dispers\$4 diffuser\$4))                                     | US-PGPUB;<br>USPAT; USOCR;<br>EPO; JPO;<br>DERWENT;<br>IBM_TDB | OR | ON | 2006/02/14<br>19:15 |
| S37 | 5058   | S36 and (vane ridge)   | US-PGPUB;<br>USPAT; USOCR;<br>EPO; JPO;<br>DERWENT;<br>IBM_TDB | OR | ON | 2006/02/14<br>19:16 |
| S38 | 593    | S37 and plasma   | US-PGPUB;<br>USPAT; USOCR;<br>EPO; JPO;<br>DERWENT;<br>IBM_TDB | OR | ON | 2006/02/14<br>19:17 |
| S39 | 93     | S37 and (118/715.ccls.<br>156/345.33.ccls. 156/345.34.<br>ccls.)   | US-PGPUB;<br>USPAT; USOCR;<br>EPO; JPO;<br>DERWENT;<br>IBM_TDB | OR | ON | 2006/02/14<br>20:11 |
| S40 | 8      | ("3992137"   "4165963"  <br>"4287673"   "5209402"  <br>"5308989"   "5595602"  <br>"6113700"   "6299436").PN.<br>OR ("6663025").URPN. | US-PGPUB;<br>USPAT; USOCR                                      | OR | ON | 2006/02/14<br>19:55 |
| S41 | 1      | "5935337".pn.  | US-PGPUB;<br>USPAT; USOCR                                      | OR | ON | 2006/02/14<br>19:56 |

|     |        |   |  |    |    |                     |
|-----|--------|---|--|----|----|---------------------|
| S42 | 11     | ("4209357"   "4625678"   "5106453"   "5653806").PN.<br>OR ("5935337").URPN.                   | US-PGPUB;<br>USPAT; USOCR                                      | OR | ON | 2006/02/14<br>19:56 |
| S43 | 242    | gas and baffle and vane   | EPO; JPO;<br>DERWENT   | OR | ON | 2006/02/14<br>20:13 |
| S44 | 1      | S43 and plasma  | EPO; JPO;<br>DERWENT   | OR | ON | 2006/02/14<br>20:13 |
| S45 | 942670 | showerhead or (shower head)   | EPO; JPO;<br>DERWENT   | OR | ON | 2006/02/14<br>20:13 |
| S46 | 12     | S45 and (gas and baffle and<br>vane)  | EPO; JPO;<br>DERWENT   | OR | ON | 2006/02/14<br>20:14 |
| S47 | 3067   | 118/715.ccls.   | US-PGPUB;<br>USPAT; USOCR                                      | OR | ON | 2006/02/14<br>20:16 |
| S48 | 1830   | S47 and (gas and (diffuser<br>disperser baffle distribut\$4<br>inject\$4))                    | US-PGPUB;<br>USPAT; USOCR                                      | OR | ON | 2006/02/14<br>20:17 |
| S49 | 115    | S48 and (vane ridge)  | US-PGPUB;<br>USPAT; USOCR                                      | OR | ON | 2006/02/14<br>20:18 |
| S50 | 35     | S49 not S39   | US-PGPUB;<br>USPAT; USOCR                                      | OR | ON | 2006/02/14<br>20:18 |
| S51 | 509    | 156/345.33.ccls. 156/345.34.<br>ccls.   | US-PGPUB;<br>USPAT   | OR | ON | 2006/02/15<br>10:06 |
| S52 | 3067   | 118/715.ccls.   | US-PGPUB;<br>USPAT; USOCR                                      | OR | ON | 2006/02/15<br>10:06 |
| S53 | 2880   | S52 not S51   | US-PGPUB;<br>USPAT; USOCR;<br>EPO; JPO;<br>DERWENT;<br>IBM_TDB | OR | ON | 2006/02/15<br>10:06 |
| S54 | 19122  | (Gas near2 distribut\$4) and<br>(hub conduit pipe inlet)                                      | US-PGPUB;<br>USPAT   | OR | ON | 2006/02/15<br>12:11 |
| S55 | 1958   | S54 and ("118"/\$.ccls.<br>156/345.\$2.ccls.)   | US-PGPUB;<br>USPAT   | OR | ON | 2006/02/15<br>12:01 |
| S56 | 513    | S55 and showerhead  | US-PGPUB;<br>USPAT   | OR | ON | 2006/02/15<br>12:02 |
| S57 | 896    | S55 and (showerhead<br>(shower head))   | US-PGPUB;<br>USPAT   | OR | ON | 2006/02/15<br>12:02 |
| S58 | 222    | S57 and baffle  | US-PGPUB;<br>USPAT   | OR | ON | 2006/02/15<br>12:03 |
| S59 | 99     | (Gas near2 distribut\$4) same<br>hub  | US-PGPUB;<br>USPAT   | OR | ON | 2006/02/15<br>12:44 |
| S60 | 540    | (Gas near2 distribut\$4) and<br>(hub and (tube pipe conduit))                                 | US-PGPUB;<br>USPAT   | OR | ON | 2006/02/15<br>12:45 |
| S61 | 79     | S60 and ("118"/\$.ccls.<br>156/345.\$2.ccls. "427"/\$.ccls.<br>"438"/\$.ccls. "216"/\$.ccls.) | US-PGPUB;<br>USPAT   | OR | ON | 2006/02/15<br>13:06 |
| S62 | 1      | "20050026402"   | US-PGPUB;<br>USPAT   | OR | ON | 2006/02/15<br>13:06 |

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|-----|--------|--|--|----|----|---------------------|
| S63 | 7231   | (gas near2 (distribut\$4 inject \$4 introduc\$4)) and (plural\$4 same channel\$3)                  | US-PGPUB;<br>USPAT   | OR | ON | 2006/02/15<br>15:21 |
| S64 | 503786 | "118"/\$.ccls. 156/345\$.2.ccls.<br>"216"/\$.ccls. "427"/\$.ccls.<br>"438"/\$.ccls. "204"/\$.ccls. | US-PGPUB;<br>USPAT; USOCR;<br>EPO; JPO;<br>DERWENT;<br>IBM_TDB | OR | ON | 2006/02/15<br>15:21 |
| S65 | 1359   | S63 and S64  | US-PGPUB;<br>USPAT   | OR | ON | 2006/02/15<br>15:21 |
| S66 | 71     | S65 and (hub or (center near2 feed\$3))  | US-PGPUB;<br>USPAT   | OR | ON | 2006/02/15<br>15:42 |
| S67 | 12     | S65 and ((hub or (center near2 feed\$3)) same (plural \$3 same channel\$3))                        | US-PGPUB;<br>USPAT   | OR | ON | 2006/02/15<br>15:44 |
| S68 | 56     | (laxman near2 muruges).in.<br>(padmanabhan near2 krishnaraj).in. (carl near2 dunham).in.           | US-PGPUB;<br>USPAT   | OR | ON | 2006/02/15<br>16:39 |
| S69 | 2      | "20040060657"<br>"20040060661"   | US-PGPUB;<br>USPAT   | OR | ON | 2006/02/15<br>16:47 |
| S70 | 5316   | (applied near2 materials).as.  | US-PGPUB;<br>USPAT   | OR | ON | 2006/02/15<br>18:33 |
| S71 | 161    | S70 and ((gas near2 distribut \$4) and baffle)   | US-PGPUB;<br>USPAT   | OR | ON | 2006/02/15<br>18:34 |
| S72 | 1      | S71 and vane   | US-PGPUB;<br>USPAT   | OR | ON | 2006/02/15<br>18:35 |
| S73 | 213    | S71 or S68   | US-PGPUB;<br>USPAT   | OR | ON | 2006/02/15<br>19:15 |
| S74 | 0      | "200500264021"   | DERWENT  | OR | ON | 2006/02/15<br>19:16 |
| S75 | 1      | "20050026402"  | DERWENT  | OR | ON | 2006/02/15<br>19:19 |
| S76 | 1      | 2003-543066.NRAN.  | DERWENT  | OR | ON | 2006/02/15<br>19:16 |
| S77 | 2      | "20050026402"  | US-PGPUB;<br>USPAT; USOCR;<br>EPO; JPO;<br>DERWENT;<br>IBM_TDB | OR | ON | 2006/02/15<br>19:19 |
| S78 | 283    | jurgensen.in.  | US-PGPUB;<br>USPAT; USOCR;<br>EPO; JPO;<br>DERWENT;<br>IBM_TDB | OR | ON | 2006/02/15<br>19:20 |
| S79 | 32     | (holger near2 jurgensen).in.   | US-PGPUB;<br>USPAT; USOCR;<br>EPO; JPO;<br>DERWENT;<br>IBM_TDB | OR | ON | 2006/02/15<br>19:20 |

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|-----|-----|--|--|----|----|---------------------|
| S80 | 2   | "6878206".pn.  | US-PGPUB;<br>USPAT; USOCR;<br>EPO; JPO;<br>DERWENT;<br>IBM_TDB | OR | ON | 2006/02/16<br>08:46 |
| S81 | 243 | (<br>"20010000866"<br>"20010009140"<br>"20010011526"<br>"20010013312"<br>"20010014371"<br>"20010031562"<br>"20010034123"<br>"20010041250"<br>"20010042523"<br>"20010042799"<br>"20010054377"<br>"20020000196"<br>"20020007790"<br>"20020041931"<br>"20020052097"<br>"20020066411"<br>"20020073924"<br>"20020076481"<br>"20020076507"<br>"20020076508"<br>"20020086106"<br>"20020092471"<br>"20020094689"<br>"20020104481"<br>"20020108570"<br>"20020121241"<br>"20020121342"<br>"20020127745"<br>"20020134307"<br>"20020144655"<br>"20020144657"<br>"20020146511"<br>"20030004723"<br>"20030010451"<br>"20030022338"<br>"20030042630"<br>"20030053799"<br>"20030072913"<br>"20030075273"<br>"20030075925"<br>"20030079686"<br>"20030089308"<br>"20030101927"<br>"20030106490"<br>"20030113187"<br>"20030116087"<br>"20030121469"<br>"20030121608"<br>"20030140854"<br>"20030143328"<br>"20030143747"<br>"20030153177"<br>"20030172872"<br>"20030194493"<br>) | US-PGPUB;<br>USPAT; USOCR                                      | OR | ON | 2006/02/16<br>10:13 |

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"20030198754" |
"20030213560" |
"20030216981" |
"20030221780" |
"20030224107" |
"20040011404" |
"20040011504" |
"20040013577" |
"20040014320" |
"20040015300" | "3592575" |
"4058430" | "4389973" |
"4413022" | "4486487" |
"4761289" | "4767494" |
"4806321" | "4813846" |
"4829022" | "4834831" |
"4838983" | "4838993" |
"4840921" | "4845049" |
"4859625" | "4859627" |
"4861417" | "4876218" |
"4917556" | "4927670" |
"4931132" | "4951601" |
"4960720" | "4975252" |
"4993357" | "4993358" |
"5000113" | "5013683" |
"5028565" | "5082798" |
"5085885" | "5091320" |
"5130269" | "5166092" |
"5173474" | "5186718" |
"5205077" | "5225366").PN.
OR ("5232164" | "5234561" |
"5246536" | "5250148" |
"5254207" | "5256244" |
"5259881" | "5261959" |
"5270247" | "5278435" |
"5281274" | "5286296" |
"5290748" | "5294286" |
"5296403" | "5300186" |
"5311055" | "5316615" |
"5316793" | "5330610" |
"5336324" | "5338362" |
"5338389" | "5348911" |
"5374570" | "5395791" |
"5423936" | "5438952" |
"5439876" | "5441703" |
"5443033" | "5443647" |
"5455072" | "5458084" |
"5469806" | "5480818" |
"5483919" | "5484664" |
"5500256" | "5503875" |
"5521126" | "5527733" |
"5532511" | "5540783" |
"5580380" | "5601651" |
"5609689" | "5616181" |
"5637530" | "5641984" |
"5644128" | "5667592" |
"5674786" | "5693139" |
"5695564" | "5705224" |
"5707880" | "5711811" |
"5730801" | "5730802" |

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|     |    |   |                           |    |    |                     |
|-----|----|---|---------------------------|----|----|---------------------|
|     |    | "5747113" "5749974"<br>"5788447" "5788799"<br>"5796116" "5801634"<br>"5807792" "5830270"<br>"5835677" "5851849"<br>"5855675" "5855680"<br>"5856219" "5858102"<br>"5866213" "5866795"<br>"5879459" "5882165"<br>"5882413" "5904565"<br>"5916365" "5923056"<br>"5923985" "5925574"<br>"5928389" "5942040"<br>"5947710" "5972430"<br>"5976261" "6001669"<br>"6015590" "6025627"<br>"6036773" "6042652"<br>"6043177" "6051286"<br>"6062798" "6071808"<br>"6084302" "6086677"<br>"6110556" "6113977"<br>"6117244" "6123775"<br>"6124158" "6130147"<br>"6139700" "6140237"<br>"6140238" "6143659"<br>"6144060" "6158446"<br>"6174377" "6174809"<br>"6183563" "6197683"<br>"6200893" "6203613"<br>"6206967" "6207302"<br>"6231672" "6248605"<br>"6270572" "6271148"<br>"6287965").PN. OR<br>("6291876"   "6305314"  <br>"6306216"   "6316098"  <br>"6447607" "6478872"<br>"6481945" "6511539"<br>"6551406" "6572705"<br>"6578287" "6579372"<br>"6630030" "6630201"<br>"6660126").PN. OR<br>("6878206").URPN. |                           |    |    |                     |
| S82 | 1  | "20040200412"   | US-PGPUB;<br>USPAT; USOCR | OR | ON | 2006/02/16<br>10:13 |
| S83 | 24 | ("4138306" "4563367"  <br>"4910042" "4913929"<br>"4988644" "5000113"<br>"5158644" "5346579"<br>"5350480" "5403434"<br>"5662770" "5688357"<br>"5770098" "5792272"<br>"5812403" "5844195"<br>"5942804" "6039834"<br>"6060400" "6125859"<br>"6148832" "6170428"<br>"6182602" "6217951").PN.  | US-PGPUB;<br>USPAT        | OR | ON | 2006/02/16<br>10:17 |
| S84 | 4  | S83 and showerhead  | US-PGPUB;<br>USPAT        | OR | ON | 2006/02/16<br>10:17 |

|      |      |   |                           |    |    |                     |
|------|------|---|---------------------------|----|----|---------------------|
| S85  | 3115 | 118/715.ccls.   | US-PGPUB;<br>USPAT        | OR | ON | 2006/08/02<br>12:35 |
| S86  | 8    | S85 and (gas and baffle and vane\$2)  | US-PGPUB;<br>USPAT        | OR | ON | 2006/08/02<br>12:38 |
| S87  | 36   | S85 and (gas and baffle and (vane\$2 blade\$2 impeller))  | US-PGPUB;<br>USPAT        | OR | ON | 2006/08/02<br>12:38 |
| S88  | 28   | S87 not S86   | US-PGPUB;<br>USPAT        | OR | ON | 2006/08/02<br>12:44 |
| S89  | 56   | S85 and ((baffle dispers\$3 diffus\$3 impeller) same (vane \$2 blade\$2 ridge\$2))  | US-PGPUB;<br>USPAT        | OR | ON | 2006/08/02<br>12:51 |
| S90  | 41   | S89 not S87   | US-PGPUB;<br>USPAT        | OR | ON | 2006/08/02<br>12:45 |
| S91  | 2931 | (baffle dispers\$3 diffus\$3 impeller) same ((vane\$2 blade \$2 ridge\$2) same ((upper and lower) or both or (first and second)) near3 (surface\$2 face\$2 end\$2))   | US-PGPUB;<br>USPAT        | OR | ON | 2006/08/02<br>12:54 |
| S92  | 134  | S91 and (118/715-733 156/345.\$2 "204"/\$ "216"/\$ "219"/\$ "315"/\$ "427"/\$ "438"/\$).ccls.   | US-PGPUB;<br>USPAT        | OR | ON | 2006/08/02<br>12:55 |
| S93  | 127  | S92 and @ad< "20040309"   | US-PGPUB;<br>USPAT        | OR | ON | 2006/08/02<br>12:55 |
| S94  | 125  | S93 not S89   | US-PGPUB;<br>USPAT        | OR | ON | 2006/08/02<br>13:48 |
| S95  | 1    | "6450117".pn.   | US-PGPUB;<br>USPAT        | OR | ON | 2006/08/02<br>13:48 |
| S96  | 24   | ("4138306"   "4563367"   "4910042"   "4913929"   "4988644"   "5000113"   "5158644"   "5346579"   "5350480"   "5403434"   "5662770"   "5688357"   "5770098"   "5792272"   "5812403"   "5844195"   "5942804"   "6039834"   "6060400"   "6125859"   "6148832"   "6170428"   "6182602"   "6217951").PN. | US-PGPUB;<br>USPAT        | OR | ON | 2007/05/04<br>11:22 |
| S97  | 3738 | 156/345.33,345.34.ccls.<br>118/715.ccls.  | US-PGPUB;<br>USPAT        | OR | ON | 2007/05/04<br>12:53 |
| S98  | 2868 | S97 and @ad< "20040309"   | US-PGPUB;<br>USPAT        | OR | ON | 2007/05/04<br>12:53 |
| S99  | 51   | S98 and ((self adj clean\$3) or ((in adj situ) near2 clean\$3))   | US-PGPUB;<br>USPAT        | OR | ON | 2007/05/04<br>11:26 |
| S100 | 16   | ("4709655"   "4999320"   "5203958"   "5308950"   "5542559"   "5679215"   "5698062"   "5900103"   "5997687"   "6035803").PN.<br>OR ("6277235").URPN.   | US-PGPUB;<br>USPAT; USOCR | OR | ON | 2007/05/04<br>12:23 |



|      |       |  |                           |    |    |                     |
|------|-------|--|---------------------------|----|----|---------------------|
| S101 | 42    | S98 and ((baffle dispers\$3 diffus\$3 inject\$3 distribut\$3) with (vane\$2 blade\$2 fin\$2 cam\$2 curv\$5) with (clean\$3 remov\$4 reduc\$4 prevent\$3 scaveng\$4))   | US-PGPUB;<br>USPAT; USOCR | OR | ON | 2007/05/04<br>14:30 |
| S102 | 140   | maydan.in.   | US-PGPUB;<br>USPAT; USOCR | OR | ON | 2007/05/04<br>12:47 |
| S103 | 435   | 156/345.33.ccls.   | US-PGPUB;<br>USPAT        | OR | ON | 2007/05/04<br>12:53 |
| S104 | 333   | S103 and @ad<"20040309"  | US-PGPUB;<br>USPAT        | OR | ON | 2007/05/04<br>14:34 |
| S105 | 61    | S104 and (gas with (vane\$2 fin\$2 blade\$2 cam\$2 curv\$5))   | US-PGPUB;<br>USPAT        | OR | ON | 2007/05/04<br>12:54 |
| S106 | 1     | "6450117".pn.  | US-PGPUB;<br>USPAT        | OR | ON | 2007/05/04<br>17:53 |
| S107 | 31    | ("4282267"   "4433228"  <br>"4576692"   "4738748"  <br>"4818326"   "4831963"  <br>"4863561"   "4867841"  <br>"5002632"   "5010842"  <br>"5084126"   "5158644"  <br>"5282899"   "5312519"  <br>"5356478"   "5382316"  <br>"5389197"   "5413954"  <br>"5449411"   "5637237"  <br>"5772771"   "5976993"  <br>"6085690").PN. OR<br>("6450117").URFN. | US-PGPUB;<br>USPAT; USOCR | OR | ON | 2007/05/04<br>14:09 |
| S108 | 36059 | ((baffle dispers\$3 diffus\$3 inject\$3 distribut\$3) with (vane\$2 blade\$2 fin\$2 cam\$2 curv\$5) with ((self adj clean \$3) or remov\$4 or reduc\$4 or prevent\$3 or scaveng\$4))   | US-PGPUB;<br>USPAT; USOCR | OR | ON | 2007/05/04<br>14:33 |
| S109 | 2819  | S108 and plasma  | US-PGPUB;<br>USPAT; USOCR | OR | ON | 2007/05/04<br>14:33 |
| S110 | 48    | ((baffle dispers\$3 diffus\$3 inject\$3 distribut\$3) with (vane\$2 blade\$2 fin\$2 cam\$2 curv\$5) with (self adj clean \$3))   | US-PGPUB;<br>USPAT; USOCR | OR | ON | 2007/05/04<br>14:36 |
| S111 | 20    | S110 and @ad<"20040309"  | US-PGPUB;<br>USPAT        | OR | ON | 2007/05/04<br>14:37 |
| S112 | 0     | ((baffle dispers\$3 diffus\$3 inject\$3 distribut\$3) with (vane\$2 blade\$2 fin\$2 cam\$2 curv\$5) with ((in adj situ) adj clean\$3))   | US-PGPUB;<br>USPAT; USOCR | OR | ON | 2007/05/04<br>14:36 |
| S113 | 864   | ((baffle dispers\$3 diffus\$3 inject\$3 distribut\$3) with (self adj clean\$3))  | US-PGPUB;<br>USPAT; USOCR | OR | ON | 2007/05/04<br>14:38 |

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| S114 | 594 | S113 and @ad< "20040309"   | US-PGPUB;<br>USPAT        | OR | ON | 2007/05/04<br>14:38 |
| S115 | 49  | S114 and plasma  | US-PGPUB;<br>USPAT        | OR | ON | 2007/05/04<br>14:37 |
| S116 | 71  | ((baffle dispers\$3 diffus\$3<br>inject\$3 distribut\$3) with (self<br>adj clean\$3)) and plasma | US-PGPUB;<br>USPAT; USOCR | OR | ON | 2007/05/04<br>14:38 |
| S117 | 49  | S116 and @ad< "20040309"   | US-PGPUB;<br>USPAT        | OR | ON | 2007/05/04<br>14:53 |
| S118 | 116 | ("4529474"   "4534816"  <br>"4657616").PN. OR<br>("4960488").URFN.                               | US-PGPUB;<br>USPAT; USOCR | OR | ON | 2007/05/04<br>14:53 |
| S119 | 97  | S118 and clean\$3  | US-PGPUB;<br>USPAT; USOCR | OR | ON | 2007/05/04<br>14:55 |
| S120 | 91  | S119 and @ad< "20040309"   | US-PGPUB;<br>USPAT        | OR | ON | 2007/05/04<br>14:55 |
| S121 | 110 | S118 and @ad< "20040309"   | US-PGPUB;<br>USPAT        | OR | ON | 2007/05/04<br>17:16 |
| S122 | 43  | S121 and (clean\$3 near4 (self<br>local\$3 situ))  | US-PGPUB;<br>USPAT; USOCR | OR | ON | 2007/05/04<br>15:05 |
| S123 | 1   | "5643394".pn.  | US-PGPUB;<br>USPAT; USOCR | OR | ON | 2007/05/04<br>17:04 |
| S124 | 1   | "6899764".pn.  | US-PGPUB;<br>USPAT; USOCR | OR | ON | 2007/05/04<br>17:04 |
| S125 | 5   | ("4450786"   "4961399"  <br>"4976217"   "5788777"  <br>"6342691").PN. OR<br>("6899764").URFN.    | US-PGPUB;<br>USPAT; USOCR | OR | ON | 2007/05/04<br>17:12 |
| S126 | 792 | (gas adj (distribut\$3 inlet))<br>same (bypass near4 gas)  | US-PGPUB;<br>USPAT; USOCR | OR | ON | 2007/05/04<br>17:15 |
| S127 | 477 | S126 and @ad< "20040309"   | US-PGPUB;<br>USPAT        | OR | ON | 2007/05/04<br>17:16 |
| S128 | 28  | S97 and S127   | US-PGPUB;<br>USPAT        | OR | ON | 2007/05/04<br>17:16 |
| S129 | 1   | "6132512".pn.  | US-PGPUB;<br>USPAT        | OR | ON | 2007/05/04<br>17:53 |
| S130 | 432 | 156/345.33,3454.34.ccls.   | US-PGPUB;<br>USPAT        | OR | ON | 2007/05/06<br>15:39 |
| S131 | 236 | S130 and clean\$3  | US-PGPUB;<br>USPAT        | OR | ON | 2007/05/06<br>15:45 |
| S132 | 179 | S131 and @ad< "20040309"   | US-PGPUB;<br>USPAT        | OR | ON | 2007/05/06<br>16:03 |
| S133 | 1   | "6450117".pn.  | US-PGPUB;<br>USPAT        | OR | ON | 2007/05/06<br>16:03 |
| S134 | 16  | (gas near3 distribut\$4) with<br>((self or (in adj situ)) adj clean<br>\$3)                      | US-PGPUB;<br>USPAT        | OR | ON | 2007/09/25<br>18:42 |
| S135 | 13  | S134 and @ad< "20040309"   | US-PGPUB;<br>USPAT        | OR | ON | 2007/09/25<br>14:07 |

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|------|-----|--|-----------------|----|----|------------------|
| S136 | 332 | ((gas near3 (distribut\$4 diffus\$3 dispers\$3 dispens\$4)) near6 clean\$3) and plasma   | US-PGPUB; USPAT | OR | ON | 2007/09/25 14:54 |
| S137 | 266 | S136 and @ad<"20040309"  | US-PGPUB; USPAT | OR | ON | 2007/09/25 14:55 |
| S138 | 26  | ((gas near3 (distribut\$4 diffus\$3 dispers\$3 dispens\$4 inlet)) near6 clean\$3) with (vane\$2 blade\$2 arc\$4)   | US-PGPUB; USPAT | OR | ON | 2007/09/25 14:57 |
| S139 | 21  | S138 and @ad<"20040309"  | US-PGPUB; USPAT | OR | ON | 2007/09/25 14:59 |
| S140 | 0   | (gas near3 (distribut\$4 diffus\$3 dispers\$3 dispens\$4 inlet)) with ((self local\$3) near3 clean\$3) with (vane\$2 blade\$2 arc\$4)                                      | US-PGPUB; USPAT | OR | ON | 2007/09/25 14:59 |
| S141 | 58  | (gas near3 (distribut\$4 diffus\$3 dispers\$3 dispens\$4 inlet)) with ((self local\$3) near3 clean\$3)   | US-PGPUB; USPAT | OR | ON | 2007/09/25 16:17 |
| S142 | 52  | S141 and @ad<"20040309"  | US-PGPUB; USPAT | OR | ON | 2007/09/25 17:53 |
| S143 | 336 | 156/345.33.ccls. and @ad<"20040309"  | US-PGPUB; USPAT | OR | ON | 2007/09/25 15:08 |
| S144 | 153 | S143 and (vane\$2 blade\$2 angle\$2 arcuate)   | US-PGPUB; USPAT | OR | ON | 2007/09/25 15:20 |
| S145 | 86  | S143 and ((vane\$2 blade\$2 angle\$2 arcuate) and clean\$3)  | US-PGPUB; USPAT | OR | ON | 2007/09/25 15:09 |
| S146 | 67  | S144 not S145  | US-PGPUB; USPAT | OR | ON | 2007/09/25 16:03 |
| S147 | 310 | (baffle with ((vane\$2 blade\$2 fan\$2) near6 (dual double second two opposi\$3))) same (chamber housing reactor)  | US-PGPUB; USPAT | OR | ON | 2007/09/25 16:05 |
| S148 | 269 | S147 and @ad<"20040309"  | US-PGPUB; USPAT | OR | ON | 2007/09/25 18:22 |
| S149 | 781 | (gas near3 (distribut\$4 diffus\$3 dispers\$3 dispens\$4 inlet)) same ((vane\$2 blade\$2 fan\$2) near6 (dual double second two opposi\$3))                                 | US-PGPUB; USPAT | OR | ON | 2007/09/25 16:18 |
| S150 | 628 | ((gas near3 (distribut\$4 diffus\$3 dispers\$3 dispens\$4 inlet)) same ((vane\$2 blade\$2 fan\$2) near6 (dual double second two opposi\$3))) and (chamber reactor housing) | US-PGPUB; USPAT | OR | ON | 2007/09/25 16:19 |

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| S151 | 282 | ((gas near\$3 (distribut\$4 diffus\$3 dispers\$3 dispens\$4 inlet)) with ((vane\$2 blade\$2 fan\$2) near\$6 (dual double second two opposi\$3))) and (chamber reactor housing)               | US-PGPUB;<br>USPAT   | OR | ON | 2007/09/25<br>16:31 |
| S152 | 256 | S151 and @ad<"20040309"  | US-PGPUB;<br>USPAT   | OR | ON | 2007/09/25<br>16:19 |
| S153 | 10  | ((gas near\$3 baffle) with ((vane\$2 blade\$2 fan\$2) near\$6 (dual double second two opposi\$3))) and (chamber reactor housing)   | US-PGPUB;<br>USPAT   | OR | ON | 2007/09/25<br>16:43 |
| S154 | 773 | ((gas and (distribut\$3 baffle dispers\$3 dispens\$4 diffus\$4 inlet inject\$3)) and ((vane\$2 blade\$2 fan\$2) near\$6 (dual double second two opposi\$3))) and (chamber reactor housing)   | EPO; JPO;<br>DERWENT | OR | ON | 2007/09/25<br>17:09 |
| S155 | 409 | ((gas and (distribut\$3 baffle dispers\$3 dispens\$4 diffus\$4 inlet inject\$3)) same ((vane\$2 blade\$2 fan\$2) near\$6 (dual double second two opposi\$3))) and (chamber reactor housing)  | EPO; JPO;<br>DERWENT | OR | ON | 2007/09/25<br>16:45 |
| S156 | 300 | ((gas with (distribut\$3 baffle dispers\$3 dispens\$4 diffus\$4 inlet inject\$3)) same ((vane\$2 blade\$2 fan\$2) near\$6 (dual double second two opposi\$3))) and (chamber reactor housing) | EPO; JPO;<br>DERWENT | OR | ON | 2007/09/25<br>17:06 |
| S157 | 249 | S156 and @ad<"20040309"  | EPO; JPO;<br>DERWENT | OR | ON | 2007/09/25<br>17:09 |
| S158 | 37  | ((gas with impeller) same ((vane\$2 blade\$2 fan\$2) near\$6 (dual double second two opposi\$3))) and (chamber reactor housing)  | EPO; JPO;<br>DERWENT | OR | ON | 2007/09/25<br>17:07 |
| S159 | 364 | S154 not S155  | EPO; JPO;<br>DERWENT | OR | ON | 2007/09/25<br>17:09 |
| S160 | 297 | S159 and @ad<"20040309"  | EPO; JPO;<br>DERWENT | OR | ON | 2007/09/25<br>17:10 |
| S161 | 21  | ((double two) adj sided adj (impeller baffle)) same (vane\$2 blade\$2 fan\$2)) and (chamber reactor housing)   | US-PGPUB;<br>USPAT   | OR | ON | 2007/09/25<br>18:22 |
| S162 | 11  | S161 and @ad<"20040309"  | US-PGPUB;<br>USPAT   | OR | ON | 2007/09/25<br>17:58 |
| S163 | 1   | "6663025".pn.  | US-PGPUB;<br>USPAT   | OR | ON | 2007/09/25<br>17:58 |

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| S164 | 8    | ("3992137"   "4165963"   "4287673"   "5209402"   "5308989"   "5595602"   "6113700"   "6299436").PN.<br>OR ("6663025").URPN.                             | US-PGPUB;<br>USPAT; USOCR                | OR | ON | 2007/09/25<br>17:58 |
| S165 | 3481 | 118/715.cds.  | US-PGPUB;<br>USPAT                       | OR | ON | 2007/09/25<br>18:22 |
| S166 | 2616 | S165 and @ad<"20040309"   | US-PGPUB;<br>USPAT                       | OR | ON | 2007/09/25<br>18:44 |
| S167 | 0    | S166 and (((double two) adj<br>sided adj (impeller baffle))<br>same (vane\$2 blade\$2 fan<br>\$2)) and (chamber reactor<br>housing)                     | US-PGPUB;<br>USPAT                       | OR | ON | 2007/09/25<br>18:24 |
| S168 | 1    | S166 and (((double two)<br>near3 (impeller baffle)) same<br>(vane\$2 blade\$2 fan\$2)) and<br>(chamber reactor housing)                                 | US-PGPUB;<br>USPAT                       | OR | ON | 2007/09/25<br>18:24 |
| S169 | 68   | (gas near3 (distribut\$4 baffle<br>impeller diffus\$3 dispens\$3<br>disper\$3 inject\$3) with ((self<br>or (in adj situ)) or local\$3) adj<br>clean\$3) | US-PGPUB;<br>USPAT                       | OR | ON | 2007/09/25<br>18:51 |
| S170 | 58   | S169 and @ad<"20040309"   | US-PGPUB;<br>USPAT                       | OR | ON | 2007/09/25<br>18:52 |
| S171 | 2474 | (gas near3 (distribut\$4 baffle<br>impeller diffus\$3 dispens\$3<br>disper\$3 inject\$3)) with (vane<br>\$2 blade\$2 fan\$2)                            | US-PGPUB;<br>USPAT                       | OR | ON | 2007/09/25<br>18:53 |
| S172 | 2147 | S171 and @ad<"20040309"   | US-PGPUB;<br>USPAT                       | OR | ON | 2007/09/25<br>18:52 |
| S173 | 16   | S172 and (118/715<br>156/345.33).cds.   | US-PGPUB;<br>USPAT                       | OR | ON | 2007/09/26<br>08:49 |
| S174 | 12   | S172 and (118/716-733<br>156/345.\$2).cds.  | US-PGPUB;<br>USPAT                       | OR | ON | 2007/09/25<br>18:56 |
| S175 | 13   | S172 and ("216"/\$ "315"/\$<br>"438"/\$).cds.   | US-PGPUB;<br>USPAT                       | OR | ON | 2007/09/25<br>18:57 |
| S176 | 2786 | (118/715 156/345.33).cds.<br>and @ad<"20040309"   | US-PGPUB;<br>USPAT                       | OR | ON | 2007/09/26<br>09:18 |
| S177 | 20   | S176 and (clean\$3 with (blade<br>\$2 vane\$2 fan\$2))  | US-PGPUB;<br>USPAT                       | OR | ON | 2007/09/26<br>09:59 |
| S178 | 2852 | (clean\$3 with gas with (blade<br>\$2 vane\$2 fan\$2))  | US-PGPUB;<br>USPAT; EPO;<br>JPO; DERWENT | OR | ON | 2007/09/26<br>08:52 |
| S179 | 1323 | (clean\$3 with gas with (blade<br>\$2 vane\$2 fan\$2))  | EPO; JPO;<br>DERWENT                     | OR | ON | 2007/09/26<br>08:52 |
| S180 | 22   | S179 and C23C 16/00.ipc.  | EPO; JPO;<br>DERWENT                     | OR | ON | 2007/09/26<br>08:54 |
| S181 | 7    | S179 and C23F 01/00.ipc.  | EPO; JPO;<br>DERWENT                     | OR | ON | 2007/09/26<br>08:55 |

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| S182 | 20   | S179 and H01L 21/00.ipc.   | EPO; JPO;<br>DERWENT | OR | ON | 2007/09/26<br>08:55 |
| S183 | 2    | S176 and (((gas adj inlet<br>same (clean\$3 with (blade\$2<br>vane\$2 fan\$2)))  | US-PGPUB;<br>USPAT   | OR | ON | 2007/09/26<br>09:00 |
| S184 | 1    | S176 and (((impeller diffus\$3<br>dispers\$3 dispens\$3 inlet<br>inject\$3 distribut\$3) with<br>(clean\$3 with (blade\$2 vane<br>\$2 fan\$2)))                      | US-PGPUB;<br>USPAT   | OR | ON | 2007/09/26<br>09:17 |
| S185 | 3    | S176 and (((impeller diffus\$3<br>dispers\$3 dispens\$3 inlet<br>inject\$3 distribut\$3) same<br>(clean\$3 with (blade\$2 vane<br>\$2 fan\$2)))                      | US-PGPUB;<br>USPAT   | OR | ON | 2007/09/26<br>09:01 |
| S186 | 67   | S176 and (((impeller diffus\$3<br>dispers\$3 dispens\$3 inlet<br>inject\$3 distribut\$3) with<br>(blade\$2 vane\$2 fan\$2))  | US-PGPUB;<br>USPAT   | OR | ON | 2007/09/26<br>09:02 |
| S187 | 67   | S176 and (((impeller diffus\$3<br>dispers\$3 dispens\$3 inlet<br>inject\$3 distribut\$3) with<br>(blade\$2 vane\$2 fan\$2))  | US-PGPUB;<br>USPAT   | OR | ON | 2007/09/26<br>09:02 |
| S188 | 336  | ((156/345.33).cds. and<br>@ad<"20040309"   | US-PGPUB;<br>USPAT   | OR | ON | 2007/09/26<br>09:08 |
| S189 | 51   | S188 and (blade\$2 vane\$2 fan<br>\$2)   | US-PGPUB;<br>USPAT   | OR | ON | 2007/09/26<br>09:09 |
| S190 | 62   | S188 and (((impeller diffus\$3<br>dispers\$3 dispens\$3 inlet<br>inject\$3 distribut\$3) with clean<br>\$3)  | US-PGPUB;<br>USPAT   | OR | ON | 2007/09/26<br>09:15 |
| S191 | 3311 | ((impeller diffus\$3 dispers\$3<br>dispens\$3 inlet inject\$3<br>distribut\$3) with (clean\$3<br>with (blade\$2 vane\$2 fan<br>\$2)))                                | US-PGPUB;<br>USPAT   | OR | ON | 2007/09/26<br>09:17 |
| S192 | 1223 | ((impeller diffus\$3 dispers\$3<br>dispens\$3 inlet inject\$3<br>distribut\$3) with clean\$3 with<br>(blade\$2 vane\$2 fan\$2))<br>same (chamber reactor<br>housing) | US-PGPUB;<br>USPAT   | OR | ON | 2007/09/26<br>09:37 |
| S193 | 1046 | S192 and @ad<"20040309"  | US-PGPUB;<br>USPAT   | OR | ON | 2007/09/26<br>09:32 |
| S194 | 17   | S192 and @ad<"20040309"<br>and plasma  | US-PGPUB;<br>USPAT   | OR | ON | 2007/09/26<br>09:37 |
| S195 | 469  | ((impeller diffus\$3 dispers\$3<br>dispens\$3 inlet inject\$3<br>distribut\$3) with clean\$3 with<br>(blade\$2 vane\$2)) same<br>(chamber reactor housing)           | US-PGPUB;<br>USPAT   | OR | ON | 2007/09/26<br>09:37 |
| S196 | 420  | S195 and @ad<"20040309"  | US-PGPUB;<br>USPAT   | OR | ON | 2007/09/26<br>10:07 |

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|------|----|--|--------------------|----|----|---------------------|
| S197 | 12 | S176 and (((self adj clean\$3) or ((in adj situ) near clean\$3) or (local\$4 near2 clean\$3)) with (gas near5 flow\$2))  | US-PGPUB;<br>USPAT | OR | ON | 2007/09/26<br>10:10 |
| S198 | 20 | ((118/716-733.ccls. 156/345. \$2.ccls.) and (((self adj clean \$3) or ((in adj situ) near clean \$3) or (local\$4 near2 clean \$3)) with (gas near5 flow\$2))                                | US-PGPUB;<br>USPAT | OR | ON | 2007/09/26<br>10:07 |
| S199 | 18 | S198 and @ad< "20040309"   | US-PGPUB;<br>USPAT | OR | ON | 2007/09/26<br>10:07 |
| S200 | 2  | S176 and (((self adj clean\$3) or ((in adj situ) near clean\$3) or (local\$4 near2 clean\$3)) with ((gas near3 flow\$2) near7 (control\$3 adjust\$4)))                                       | US-PGPUB;<br>USPAT | OR | ON | 2007/09/26<br>10:11 |
| S201 | 3  | ((118/716-733.ccls. 156/345. \$2.ccls.) and (((self adj clean \$3) or ((in adj situ) near clean \$3) or (local\$4 near2 clean \$3)) with ((gas near3 flow\$2) near7 (control\$3 adjust\$4))) | US-PGPUB;<br>USPAT | OR | ON | 2007/09/26<br>10:12 |
| S202 | 1  | "6120605".pn.  | US-PGPUB;<br>USPAT | OR | ON | 2007/09/26<br>10:39 |

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